EPSON[®]

Home Theatre Projector

User's Guide

EMP-TW100



About The Manuals and Notations Used

Types of Manual

The documentation for your EPSON projector is divided into the following four manuals. Refer to the manuals in the order given below.

Ounpacking and Installation Guide

This manual contains information on the procedures from unpacking the projector through to starting to use the projector, and also describes the included accessories.

2Safety Instructions/World-Wide Warranty Terms

This manual contains information on using the projector safely, and also includes safety instructions ,world-wide warranty terms and a troubleshooting check sheet.

Be sure to read this manual thoroughly before using the projector.

Setup Guide

This manual describes the preparations required in order to start using the projector (such as remote control preparation and connecting video equipment or a computer).

4User's Guide (this manual)

This *User's Guide* contains information on basic operation, using the projector menus, troubleshooting and maintenance.

Notations used in this User's Guide

General information

•	Indicates procedures where personal injury or damage to the projector may occur if the procedures are not followed correctly.
	Indicates additional information and points which may be useful to know regarding a topic.
>>	Indicates that an explanation of the underlined word or words in front of this symbol appears in the glossary of terms. Refer to the "Glossary" in the "Appendix". (p.59)
Procedure	Indicates operating methods and the order of operations. The procedure indicated should be carried out in the order of the numbers.

Meaning of "unit" and "projector"

When "unit" or "projector" appears in the text of this *User's Guide*, they may refer to items which are accessories or optional equipment in addition to the main projector unit itself.

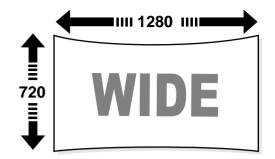
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Features of the Projector

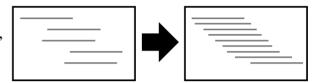
Adoption of a wide 1280 x 720 dot panel

This panel allows high-definition images to be reproduced accurately.



Adoption of a special high-resolution DCDi* video circuit developed by Faroudja.

This circuit greatly reduces the jagged edges that resulted from conventional progressive conversion, to produce much smoother and natural movement. (p.29)

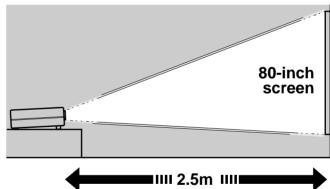


Adoption of a three-dimensional Y/C separation function in the video processing circuit

This greatly reduces the noticeable color interference at the color boundaries of <u>composite</u> <u>video</u> signals, resulting in sharper and smoother reproduction of images.

Adoption of a short focal-length lens that can project onto 80-inch screens at distances of 2.5m (8.2 ft.)

This lens is ideal for projecting onto large indoor screens. The projector can also project onto 100-inch screens in rooms with an area of about 10 m². (Refer to the *Setup Guide*.)

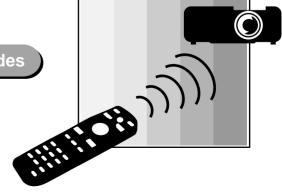


Uses five color modes

You can select the desired color mode to match the images being projected from five preset modes in order to obtain the optimum image quality. (p.13)

Includes a variety of color adjustment modes

Various color settings can be adjusted to suit your preferences, from individual RGB balance adjustment to setting the color temperature of your choice. The adjusted settings can then be stored in memory and recalled at a touch of a button on the remote control. (p.26, 28)

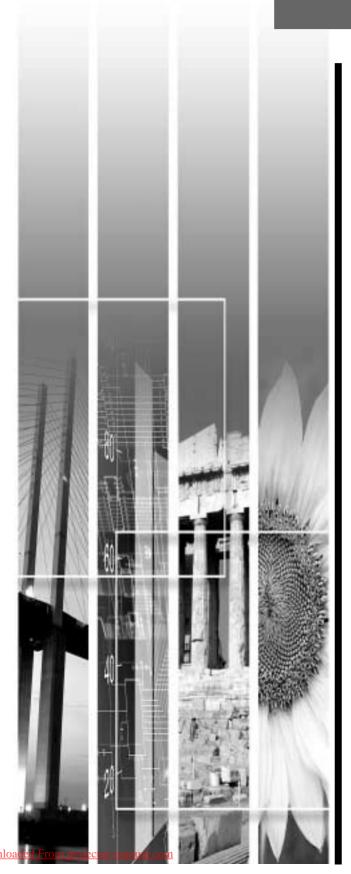




 ${}^{\star}\text{Speakers}$ are not included with the projector and must be purchased separately.

Basic Operations

This chapter describes basic operations such as turning the projector on and off and adjusting the projected images.



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Turning On the Projector

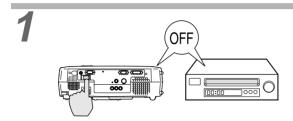
This section describes the procedure from turning on the power to projecting images.



Be sure to read the separate *Safety Instructions/World-Wide Warranty Terms* and check the points that must be noted before using the projector to project images.

Connecting the Power Cord

Procedure



Check that the power is turned off for the projector and all components connected to the projector.

2

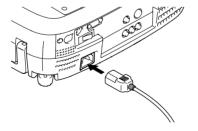
Connect the computer or other video source to the projector.

Refer to the Setup Guide.

Place your finger under the top of the lens cover and pull to remove the cover.

Remove the lens cover.





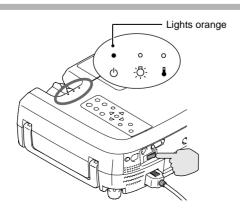
Connect the accessory power cord to the projector.

Check that the power cord connector is facing the same way as the power inlet on the projector, and then insert the power cord connector securely into the projector.

5

Connect the other end of the power cord to a grounded electrical outlet.



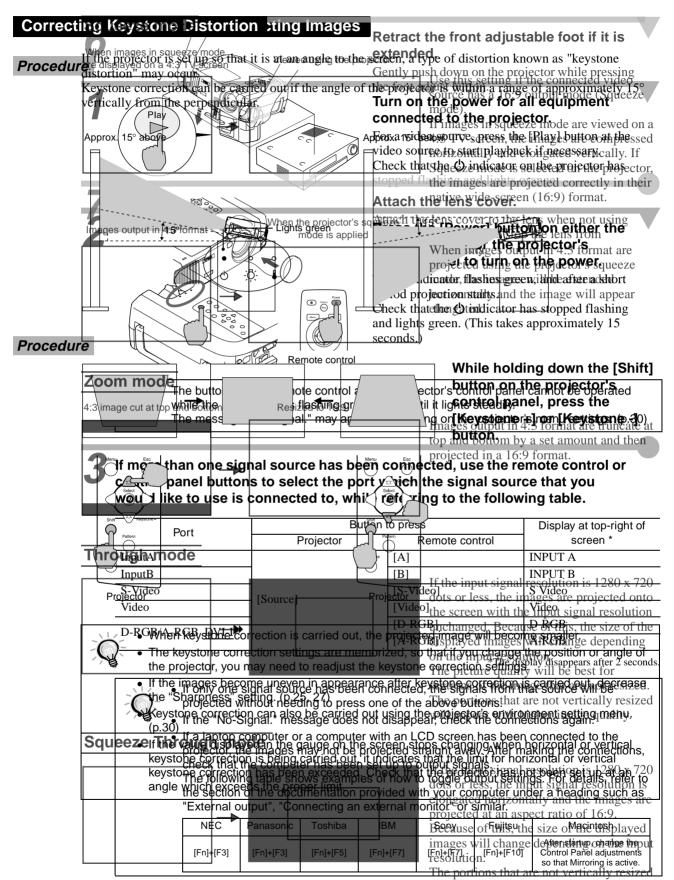


Turn on the main power switch at the rear of the projector.

Wait until the 🖒 indicator lights orange.



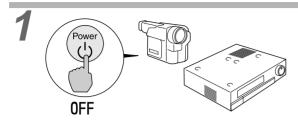
The buttons on the projector control panel and remote control cannot be operated while the \circlearrowleft indicator is flashing orange. Wait until it lights steadily.



Turning Off the Projector

Follow the procedure below to turn off the power of the projector.

Procedure



Turn off the power for the signal sources that are connected to the projector.

Check that the power for all connected components has been tuned off.

2



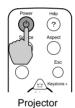
Press the [Power] button on either the remote control or the projector's control panel.

The confirmation message shown at left will appear.

If you do not want to turn off the power, press any button except the [Power] button.

If you do not carry out any operation, the message will disappear after seven seconds. (The power will not turn off at this time.)

3

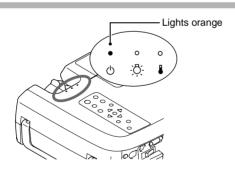




Press the [Power] button once more.

The lamp unit will turn off and the \bigcirc indicator will flash orange as the <u>cool-down</u> period starts.

4



Check that the \circlearrowleft indicator has changed to light orange.

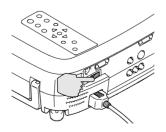
When the \circlearrowleft indicator lights orange, cool-down is complete.

The cool-down period lasts for approximately 2 minutes. (This varies depending on factors such as the ambient air temperature.)



The projector buttons cannot be operated while the \circlearrowleft indicator is flashing orange. Wait until it lights steadily.

5

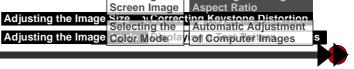


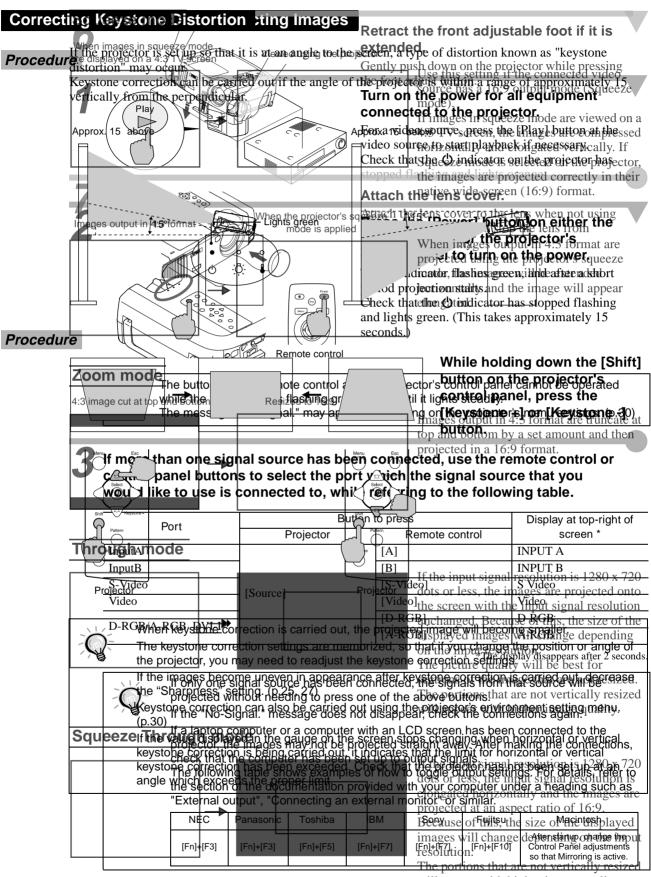
If not using the projector for long periods of time, turn off the main power switch at the rear of the projector.



Do not turn off the main power switch at the rear of the projector while the cool-down is in progress. If the main power switch is turned off before cool-down is complete, wait for the lamp to cool down (normally about one hour is required) before turning the power back on again. If the power is turned off and on before the lamp has cooled down, it may result in lamp operating errors.

Refer to "Lamp operating error" on page 35.





will appear with higher image quality.

Adjusting the Screen Image

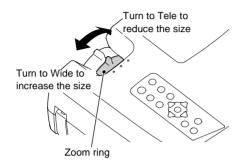
You can adjust the screen image in order to obtain the best possible picture.

Adjusting the Image Size

The size of the projected image is basically determined by the distance from the projector to the screen. (Refer to the *Setup Guide*.)

The following procedures explain how to adjust the screen image once the projector itself has been set up.

Procedure



Turn the zoom ring on the projector to adjust the image.

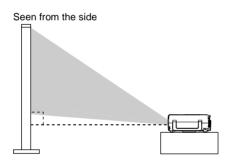
The image can be enlarged in this way to 1.35 times the normal size.

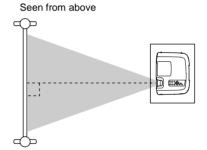
If you would like to enlarge the image further, move the projector further away from the screen. (Refer to the *Setup Guide*.)

Adjusting the Image Angle

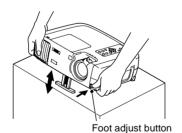
The projector should be as perpendicular to the screen as possible.

If the projector cannot be set up so that it is exactly perpendicular to the screen, it can be set up so that it is tilting slightly horizontally or vertically. To tilt the projector upward, adjust the front adjustable foot to tilt the projector at an angle of up to a maximum 12°.





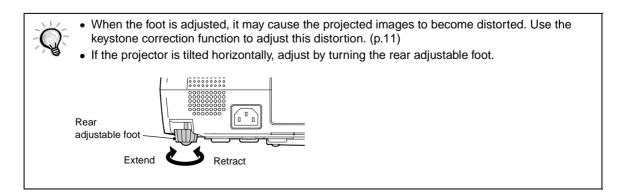
Procedure

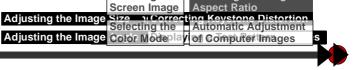


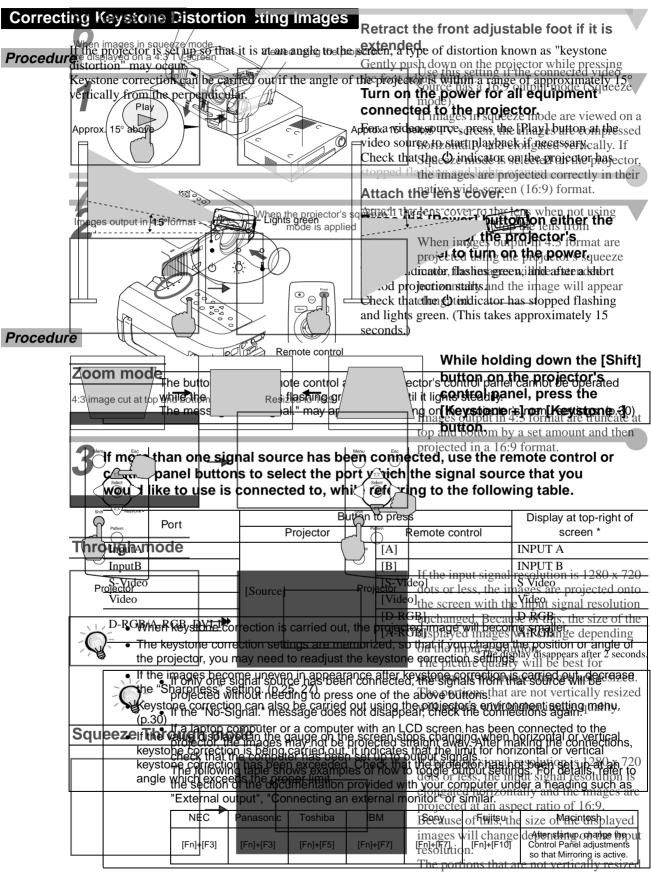
While pressing the foot adjust button, lift up the front of the projector so that the front adjustable foot can extend.

Extend the front adjustable foot until the desired angle is obtained, and then release the foot adjust button.

To retract the foot, press and hold the foot adjust button and gently lower the projector.





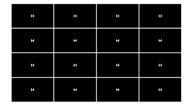


will appear with higher image quality.

Displaying a Test Pattern

When setting up the projector, you can project a test pattern onto the screen and use this test pattern to adjust the projected images before a video source has been connected. The following two types of test pattern are available.

Crosshatch



This can be used to adjust the focus and correct keystone distortion.

• Grayscale pattern



This can be used to adjust dark and light shades to the desired shade. The adjustment can be carried out using the "Color Temp" or "RGB" setting in the "Color Adjustment" item of the projector's "Video" menu.

The test pattern changes as shown below each time the [Pattern] button on either the remote control or the projector's control panel is pressed.

Crosshatch \rightarrow Grayscale pattern \rightarrow No pattern



The full environment setting menu cannot be displayed while a test pattern is being projected. If you need to change a setting, use the line menu or the [Keystone] buttons on the projector's control panel.

Adjusting the Image Quality

Focusing the Screen Image Selecting the Image Aspect Ratio

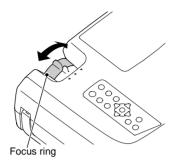
Selecting the Color Mode Automatic Adjustment of Computer Images



The quality of the screen images can be adjusted as follows.

Focusing the Screen Image

Procedure



Turn the focus ring to adjust the image focus.



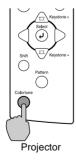
- If the surface of the lens is dirty or misted over as a result of condensation, it may not be possible to adjust the focus correctly. If this happens, clean or de-mist the lens. (p.44)
- If the projector is positioned outside the normal projecting range of 0.9 - 13 m (2.9 - 42.6 ft.), it may not be possible to obtain the correct focus. If you have trouble obtaining the correct focus, check the projection distance.

Selecting the Color Mode

The following five color modes have been preset for use with images with varying characteristics. You can use these color modes to obtain the optimum image quality easily, just by selecting whichever color mode best suits the images. The brightness of the projected images will vary depending on the mode.

Mode name	Gamma ▶	Color Temp →	Priority element	Black & white extension function	Use
Dynamic	Original 1	6700 K (adjustable)	Color	Enabled	Ideal for projecting images with greater modulation and intensity.
Theatre	Original 2	6700 K (adjustable)	Color	Enabled	Ideal for enjoying presentations such as movies which have large numbers of dark scenes.
Natural	2.2 (Basic)	6700 K (adjustable)	Color	Disabled	Ideal for enjoying presentations in a natural atmosphere.
PC	2.2 (Basic)	7500 K (adjustable)	Brightness	Disabled	Ideal for use in making images as bright as possible when projecting computer images.
sRGB [▶]	2.2 (Basic)	6500 K (fixed)	Color	Disabled	Images conform to the sRGB standard. If the connected video source has an sRGB mode, set both the projector and the video source to sRGB.

Procedure





Remote control



The color mode changes as shown below each time the [Colortune] button on either the remote control or the projector's control panel is pressed.

 $Dynamic \rightarrow Theatre \rightarrow Natural \rightarrow PC \rightarrow sRGB$

The current setting appears on the screen each time the color mode changes.



The color mode setting can also be changed using the "Color Mode" item of the projector's "Video" menu. (p.25, 27)

Selecting the Image Aspect Ratio

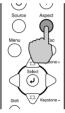
The <u>aspect ratio</u> for projected images can be selected from the following five types of setting. However, the aspect ratio settings that can be selected will vary depending on the input signal.

Input signal	Normal	Squeeze	Zoom	Through	Squeeze Through
Video (SDTV [▶])	0	0	0	0	0
Video (<u>HDTV</u>)	0	-	-	0	-
Computer (<u>SVGA</u> [▶] or lower)	0	-	0	0	-
Computer (XGA → or higher)	0	-	0	-	-



Do not use the aspect mode function to elongate or compress image that are being projected for commercial purposes or in public places such as hotel lobbies or stores, as doing so may infringe the rights of the original copyright owner for the images under copyright protection laws.

Procedure



Projector



Remote control



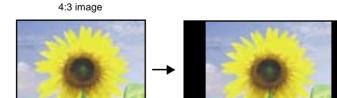
The aspect ratio changes as shown below each time the [Aspect] button on either the remote control or the projector's control panel is pressed.

 $\begin{array}{l} Normal \rightarrow Squeeze \rightarrow Zoom \rightarrow Through \rightarrow \\ Squeeze \ Through \end{array}$

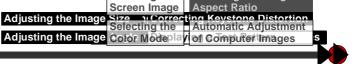
The current setting appears on the screen each time the aspect ratio changes.

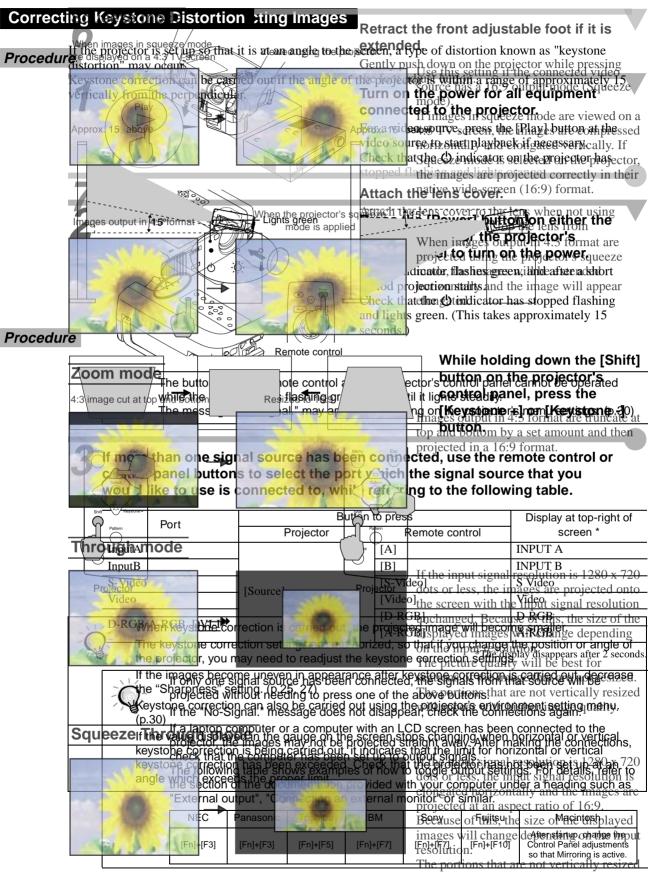
Details of each aspect ratio are as follows.

Normal mode



The aspect ratio of the images being input is maintained, and the images are projected into a 16:9 screen area. When 4:3 images are being projected, black bands will appear at the left and right of the image as shown in the illustration at left.





will appear with higher image quality.

Focusing the Screen Image

Selecting the Color Mode

Selecting the Image Aspect Ratio

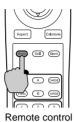
Automatic Adjustment of Computer Images

Automatic Adjustment of Computer Images

This function lets you adjust computer images to the optimum settings.

Automatic adjustment involves adjustment of tracking display position and synchronization (sync).

Procedure



While an image is being projected from the computer, press the [Auto] button on the remote control.

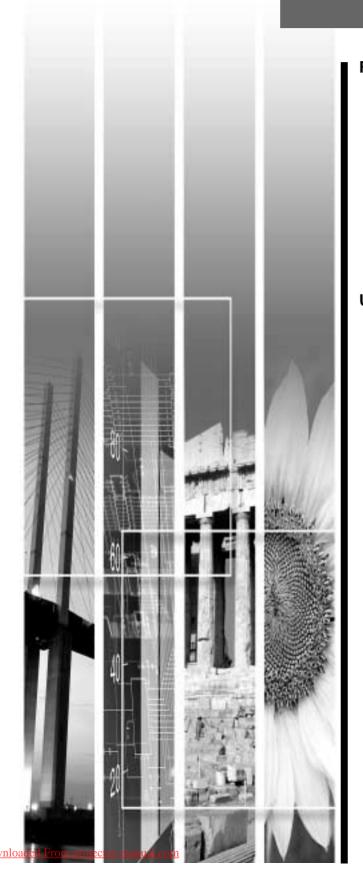
The screen will appear black while the adjustment is being made.



Automatic adjustment may not work properly with some types of signals which are output by computers. In such cases, you may need to adjust the tracking and synchronization manually using projector's environment setting menu. (p.27)

Advanced Operations

This chapter describes functions for enhancing the projection of images, and how to use the environment setting menus.



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Functions for Enhancing Projection

This section describes the various useful functions that can be used to enhance projection.

Function Summary		Reference page
Black level adjustment	Adjusts the brightness of dark shades.	p.21
White level adjustment	Adjusts the brightness of light shades.	p.21
Color adjustment	Adjusts the hues of light shades to the desired level.	p.21

Using the Environment Setting Menus

The functions described here are used to set the adjustment values using the projector's environment setting menus.

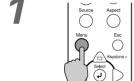
There are two types of projector's environment setting menus used:

- Full menus : These menus can be used to set all items in the environment setting menus.
- Line menus : These menus can be used to change the "Video" settings while viewing the images being projected. The "Video" menu is the most commonly used of the environment setting menus. (p.20)

Displaying and Operating Full Menus

Menus can be operated using the projector's control panel and also by using the remote control.

Procedure



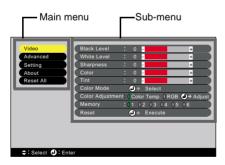
Projector



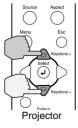
Remote control

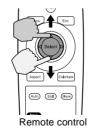
Press the [Menu] button on either the remote control or the projector's control panel.

The environment setting menu appears. Full menus consist of a main menu and submenus. The sub-menu that corresponds to the currently-selected item in the main menu (displayed in yellow) appears.



2



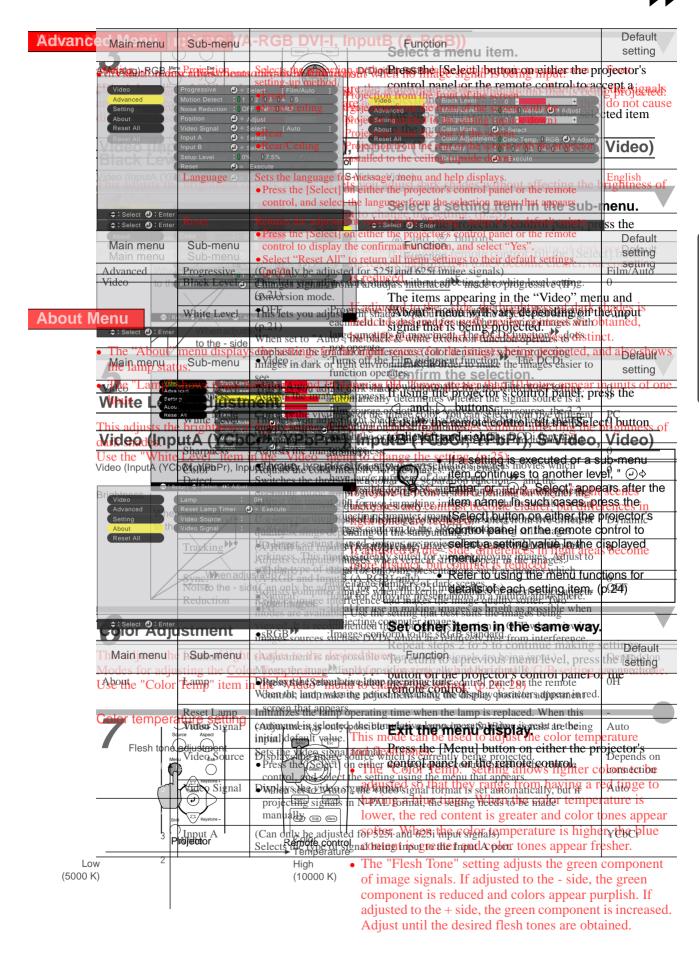


Select the items to be changed in the main menu.

If using the projector's control panel, press the riangle and riangle buttons.

If using the remote control, tilt the [Select] button up and down.

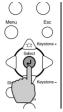




Displaying and Operating Line Menus

Procedure

1



Projecto



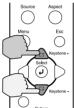
Remote control

Press the [Select] button on either the projector's control panel or the remote control.

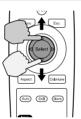
The line menu appears.



2



Projector



Remote control

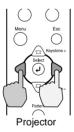
Select an item to be set.

If using the projector's control panel, press the riangle and riangle buttons.

If using the remote control, press the [Select] button up and down.

The line menu item changes when a button is pressed.

3





Remote control

Select the setting value.

If using the projector's control panel, press the \bigcirc and \bigcirc buttons.

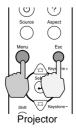
If using the remote control, press the [Select] button to the left and right.

4

Set other items in the same way.

Repeat steps 2 and 3 to continue making settings. To return to a previous menu level, press the [Esc] button on the projector's control panel or the remote control.

5



Aspect Colornes

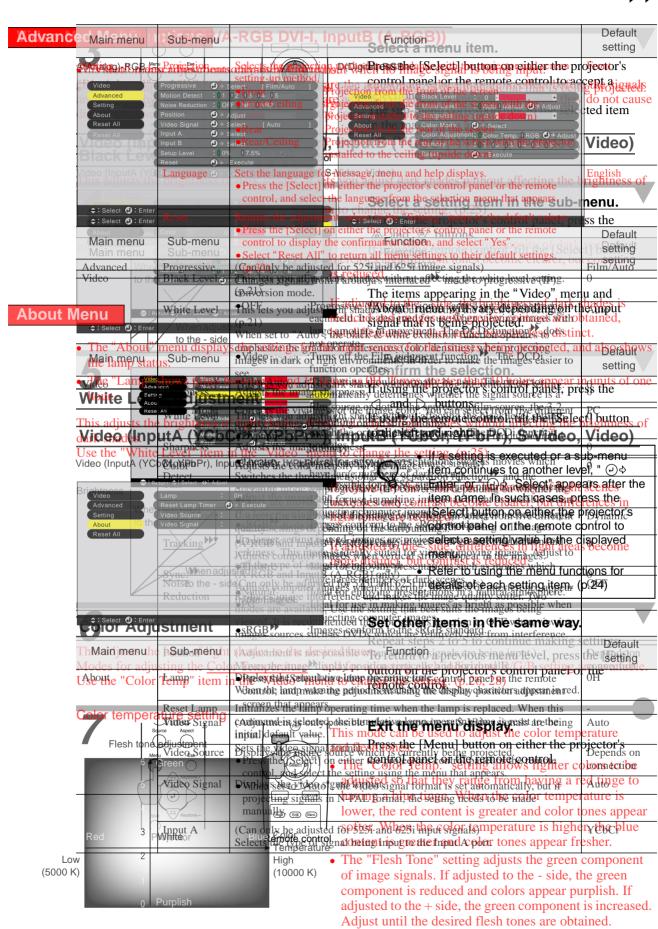
Remote control

Exit the menu display.

Press the [Menu] or [Esc] button on either the projector's control panel or the remote control.



If you do not press a button for 3 seconds while a line menu is displayed, the line menu disappears automatically.



Saving and Retrieving Image Quality Settings (Memory)

Up to a maximum of six adjustment values in the "Video" and "Advanced" menus can be memorize per input source, and settings for six different sources can be recorded, for a total of 36 possible settings. You can save the adjustment values for particular video scenes, and then use the memory button on the remote control to retrieve these settings at a single touch. (p.26, 28)

The following adjustment values can be stored in memory.

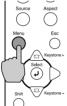
- Video menu:
 - Black Level, White Level, Sharpness, Color, Tint, Color Mode, Color Adjustment
- · Advanced menu:
 - Progressive, Motion Detect, Noise Reduction, Setup Level
- Aspect ratio setting

This is the aspect ratio that is selected using the [Aspect] button on the projector's control panel or the remote control.

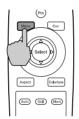
Saving Settings

Procedure

1



Projector



Remote control

Press the [Menu] button on either the projector's control panel or the remote control.

The environment setting menu will be displayed, with the adjustment values appearing as are currently set.

2



Select "Memory" from the "Video" submenu.

If using the projector's control panel, press the rianlge and rianlge buttons.

If using the remote control, tilt the [Select] button up and down.

3



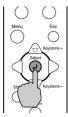
Select the memory number (1 - 6) to use for saving the settings.

If using the projector's control panel, press the \triangleleft and \triangleright buttons.

If using the remote control, tilt the [Select] button to the left and right.

The numbers correspond to memory buttons [1] to [6] on the remote control.

4



Projector



Remote control

Confirm the memory setting.

Press the [Select] button on either the projector's control panel or the remote control.

Description of Functions

Retrieving Saved Image Quality Settings

Procedure



Remote control

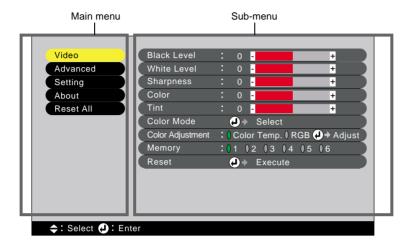
Press one of the remote control memory buttons [1] to [6] corresponding to the image quality settings to be retrieved.

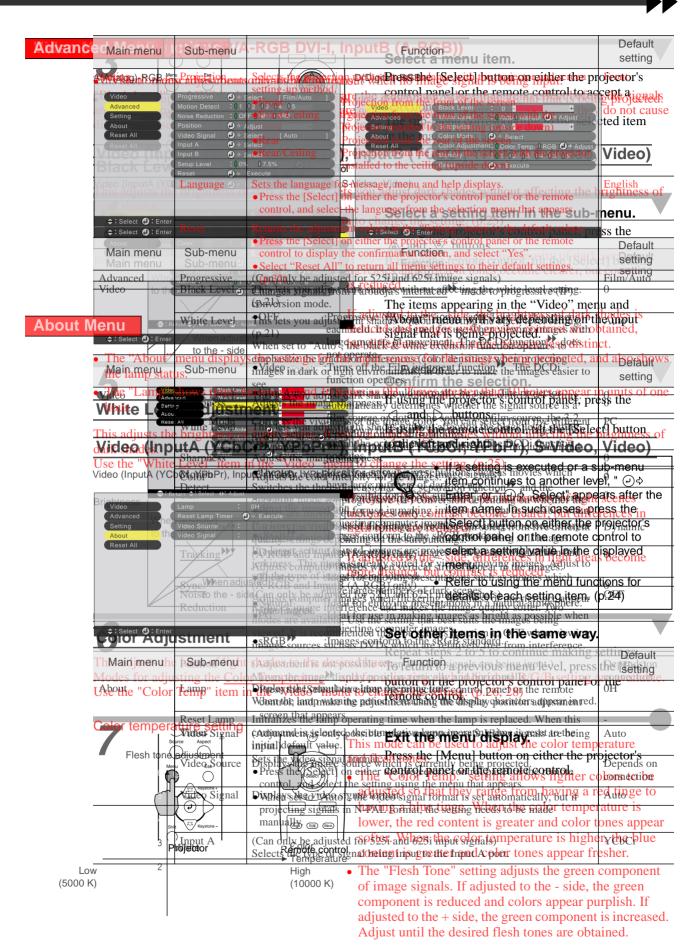
The images being projected will be adjusted according to the settings that are retrieved.

Using the Menu Functions

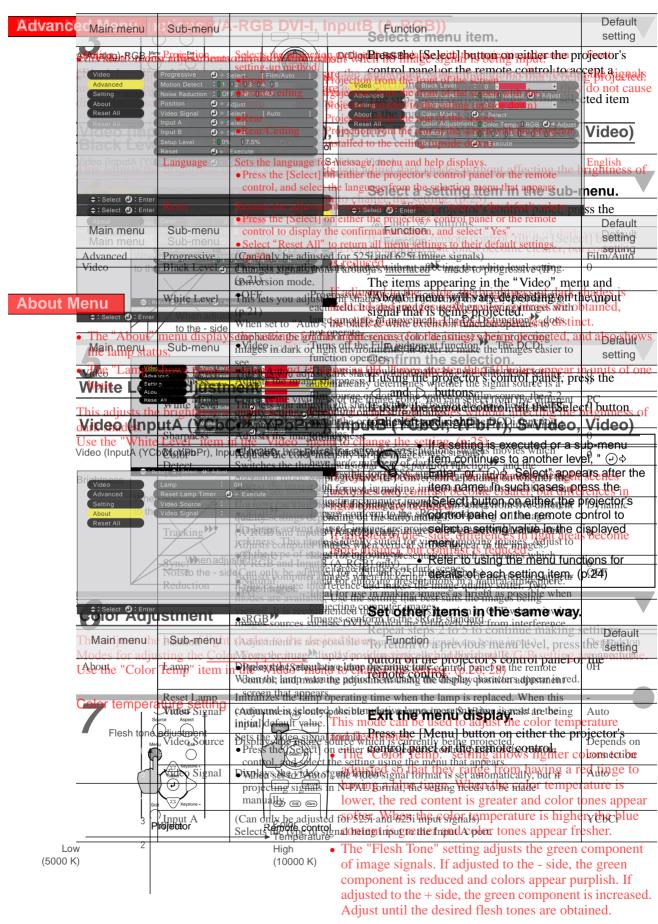
The environment setting menus can be used to carry out a variety of settings and adjustments. Two types of menu (full menus and line menus) can be used to make environment settings. This section describes all of the functions that are available in the environment setting menus using the full menus as examples. The menus have a hierarchical structure, with a main menu that is divided into sub-menus.

Refer to "Using the Environment Setting Menus" (p.18) for details on using the menus.

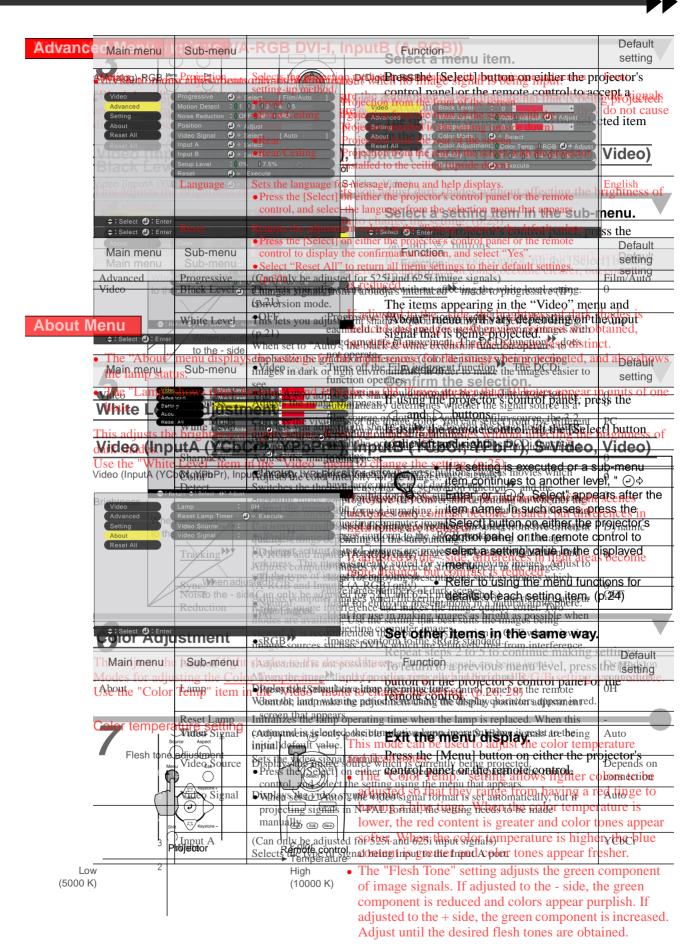




Main menu	Sub-menu	Function	Default setting
Video	Color Adjustment	Only one of the following settings can be made at any one time. It is not possible for both settings to be enabled at the same time. Color Temp. Setting (p.21) •Color Temp. :Allows lighter colors to be adjusted so that they range from having a red tinge to having a blue tinge. When the color temperature is lower, the red content is greater and color tones appear softer. When the color temperature is higher, the blue content is greater and color tones appear fresher. •Flesh tone adjustment: The "Flesh Tone" setting adjusts the green component of image signals. If adjusted to the side, the colors appear purplish. If adjusted to the side, the green component is increased. Adjust until the desired flesh tones are obtained. RGB setting (Individual adjustment mode) •The Offset offset adjusts coloration for darker shades, Gamma adjusts intermediate shades, and Gain adjusts brighter shades. The working of each adjustment is shown below. Offset adjustment Gain adjustment Gamma adjustment Brightness When adjusted to the - side Input signal The "Color Adjustment" settings correct the digital data after the signals are sampled by the A/D converter. When the Offset setting is adjusted to the + side, dark colors can be set freely as desired. When the Gain setting is adjusted to the + side, light colors can be set freely as desired. When the Gain setting is adjusted to the + side, the brightness is automatically corrected in accordance with the setting value so that the color does not become saturated, so that an S-shaped gamma curve can be easily created. Brightness Input signal Each RGB component can be adjusted to give the desired level of coloration to dark, intermediate and light ranges.	Color Temp.: 6700K Flesh tone adjustment: 2 RGB: Offset R: 0 G: 0 B: 0 Gain R: 0 G: 0 B: 0 Gamma R: 2.2 G: 2.2 B: 2.2
	Memory	This lets you save image adjustment settings and to retrieve them by pressing the corresponding remote control memory buttons. The images being projected will be adjusted according to the settings that are retrieved. (p.22) The current settings are saved to a particular recording area number when that number is selected. The setting values that are saved to memory can be cleared by selecting "Reset All".	-
	Reset	Resets all adjustment values for the "Video" menu functions to their default settings. However, all settings that are stored in memory are retained. • Press the [Select] on either the projector's control panel or the remote control to display the confirmation screen, and select Yes. • Select "Reset All" to return all menu settings to their default settings. (p.32)	-



Main menu	Sub-menu	Function	Default setting
Video	Color Adjustment	Only one of the following settings can be made at any one time. It is not possible for both settings to be enabled at the same time. Color Temp. ** setting (p.21) • Color Temp. ** Allows lighter colors to be adjusted so that they range from having a red tinge to having a blue tinge. When the color temperature is lower, the red content is greater and color tones appear softer. When the color temperature is higher, the blue content is greater and color tones appear fresher. • Flesh tone adjustment: The "Flesh Tone" setting adjusts the green component of image signals. If adjusted to the side, the green component is increased. Adjust until the desired flesh tones are obtained. RGB setting (Individual adjustment mode) • The Offset ** Gain** and Gamma** can be adjusted separately for each RGB component. Offset adjusts coloration for darker shades, Gamma adjusts intermediate shades, and Gain adjusts brighter shades. The working of each adjustment is shown below. Offset adjustment Gain adjustment Gamma adjustment Brightness When adjusted to the * side Input signal The "Color Adjustment" settings correct the digital data after the signals are sampled by the A/D converter. When the Offset setting is adjusted to the * side, dark colors can be set freely as desired. When the Gain setting is adjusted to the * side, light colors can be set freely as desired. When the Gain setting is adjusted to the * side, the brightness is automatically corrected in accordance with the setting value so that the color does not become saturated, so that an S-shaped gamma curve can be easily created. Brightness Input signal Input signal Input signal Each RGB component can be adjusted to give the desired level of	Setting Color Temp.: 7500K Flesh tone adjustment: 5 RGB: Offset R: 0 G: 0 B: 0 Gain R: 0 G: 0 B: 0 Gamma R: 2.2 G: 2.2 B: 2.2
	Memory	coloration to dark, intermediate and light ranges. This lets you save image adjustment settings and to retrieve them by pressing the corresponding remote control memory buttons. The images being projected will be adjusted according to the settings that are retrieved. (p.22) • The current settings are saved to a particular recording area number when that number is selected. • The setting values that are saved to memory can be cleared by selecting "Reset All". Resets all adjustment values for the "Video" menu functions to their default	-
	Keset	Resets all adjustment values for the "Video" menu functions to their default settings. However, all settings that are stored in memory are retained. • Press the [Select] on either the projector's control panel or the remote control to display the confirmation screen, and select "Yes". • Select "Reset All" to return all menu settings to their default settings. (p.32)	-

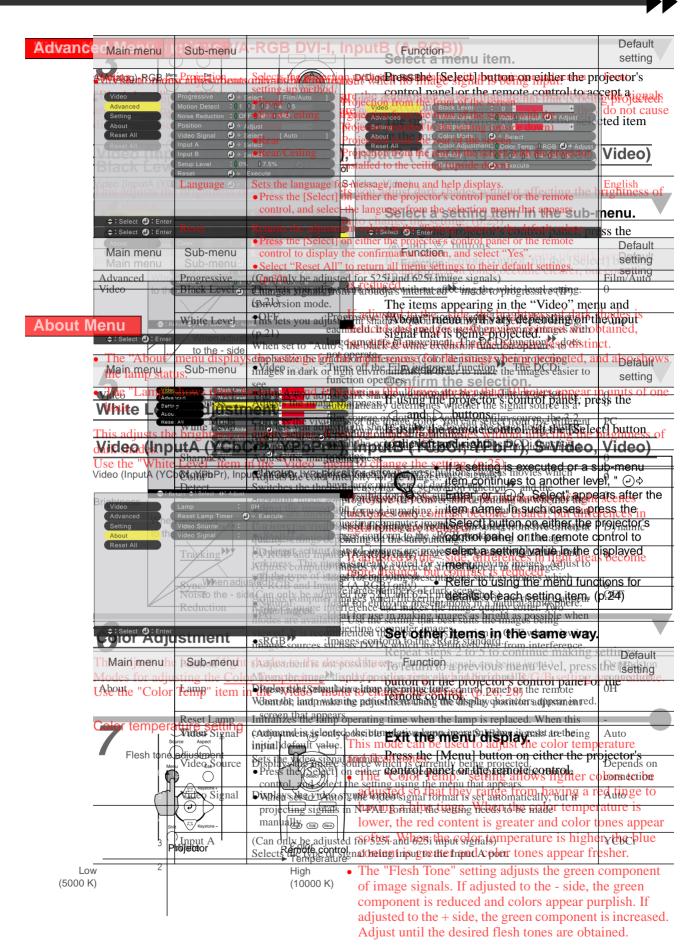


Main menu	Sub-menu	Function	Default setting
Advanced	Input B	Selects the type of signal being input to the Input B port.	RGB
	Setup Level	(Adjustment is only possible when composite, S-Video, 525i/p or 625i/p signals are being input.) When connecting equipment designed for use within Japan, this setting does not need to be changed. If using equipment designed for use outside Japan that has different black level (setup level) settings, use this function to obtain correct images. Check the specifications of the connected equipment when changing this setting.	0%
	Reset	Returns the adjustment values in the "Advanced" menu to the default values. • Press the [Select] on either the projector's control panel or the remote control to display the confirmation screen, and select "Yes". • Select "Reset All" to return all menu settings to their default settings. (p.32)	-

Setting Menu



Main menu	Sub-menu	Function	Default setting
Setting	Keystone	Corrects keystone distortion in images. (p.11) When keystone correction is carried out, the projected image will become smaller. The keystone correction settings are memorized, so that if you change the position or angle of the projector, you may need to readjust the keystone correction setting. If the images become uneven in appearance after keystone correction is carried out, decrease the "Sharpness" setting.	0
	No-Signal Msg.	Sets the screen status when no video signal is being input. OFF: Screen is completely black. Black: Screen is completely black and a no signal message appears. Screen is completely blue and a no signal message appears. The user's logo is displayed and a no signal message appears.	Blue
	Startup Screen	Sets whether the startup screen is displayed or not.	ON
	Blank	Sets the screen status when the [Blank] button on the remote control is pressed. The screen status can be selected from "Blue", "Black" or "Logo".	Black
	Sleep Mode	Use this function if you would like the projector's power to switch off automatically when image signals stop being input from the connected equipment. Setting value range: OFF, 1 minutes, 5 minutes, 10 minutes • When set to "ON": If the connected equipment has a timer off function, and this function operates to stop the image signal from being input to the projector, the projector's lamp also turns off automatically. This can be used to ensure that the lamp turns off even if the viewer falls asleep while viewing. • When sleep mode has been activated so that the projector is in standby mode, the lamp will not automatically turn back on again even if a image signal is input once more. Press the [Power] button on either the remote control or the projector's control panel to turn the power back on.	OFF



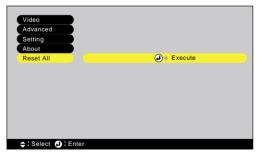
Computer (D-RGB/A-RGB DVI-I, InputB (A-RGB))

Computer



Main menu	Sub-menu	Function	Default setting
About	Lamp	Displays the cumulative lamp operating time. When the lamp warning period is reached, the display characters appear in red.	ОН
	Reset Lamp Timer	Initializes the lamp operating time when the lamp is replaced. When this command is selected, the cumulative lamp operating time is reset to the initial default value.	-
	Video Source	Displays the image source which is currently being projected.	Depends on connection
	Input Signal	Displays the input signal settings.	-
	Frequency	Displays the horizontal scanning frequency.	-
	SYNC Polarity	Displays the <u>synchronization</u> polarity.	-
	SYNC Mode	Displays the synchronization attributes.	-
	Resolution	Displays the input resolution.	-
	Refresh Rate	Displays the refresh rate.	-

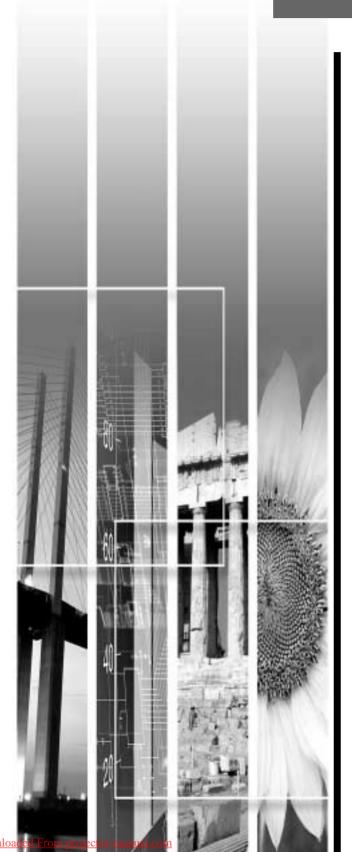
Reset All Menu



Main menu	Sub-menu	Function	Default setting
Reset All	Execute	Resets all items in all environment setting menus to their default settings. • Press the [Select] on either the projector's control panel or the remote control to display the confirmation screen, and select "Yes". • To return the settings for items in menus such as the "Video" and "Advanced" menu to the default settings, select "Reset" in the respective sub-menus. • The Lamp and Language settings will not return to their default settings.	-

Troubleshooting

This chapter describes troubleshooting procedures for the projector.

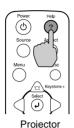


Using the Help	34
When Having Some Trouble	35
When the Indicators Provide No Help	37

Using the Help

If a problem occurs with the projector, the Help function uses on-screen displays to assist you in solving the problem. It uses a series of menus in a question and answer format. The questions vary depending on the type of video source.

Procedure

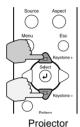


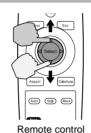


remote control or the projector's control panel.

Press the [Help] button on either the

The Help menu will be displayed.

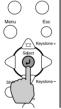




Select a menu item.

If using the projector's control panel, press the and
 ⊎ buttons.

If using the remote control, tilt the [Select] button up and down.







Remote control

Confirm the selection.

Press the [Select] on either the projector's control panel or the remote control to confirm the selection.

The sub-menu appears.



Repeat the operations in steps 2 and 3 to proceed through the menu to more detailed items.

To return to the previous menu, press the [Esc] button on either the remote control or the projector's control panel.

You can exit the Help menu at any time by pressing the [Help] button on either the projector's control panel or the remote control.



If the Help function does not provide a solution to the problem, refer to "When Having Some Trouble" (p.35) or "When the Indicators Provide No Help" (p.37).



If you are halving a problem within the problem of control of the problem of the The projector is provided with the following three indicators. These indicators alert you to problems with projector Roungerappopulation and appear dark p.41 The ggage is fuzzymages appear green p.41 Poperation indicators out of focus

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Adjust the projection angle. (p. 10) Hasathedfrof detaile the theenvalding and de than the characters following If the projection too big? he indicators mean and how to remedy problems that they indicate. Image will be out of focus vertically • : lit :: flashing • : of ConditionThe recommended distance from the projector to the screen is within 0.9 - 13 m (2.99 - 42.6 ft). Set up the conditions the screen is within 0.9 - 13 m (2.99 - 42.6 ft). Is the projector at the correct distance? Images a college that the broger of the distance is within this Idnoication status er strippettoristatios the power co the projector Stop using the projector disconney the power connection the power inlet of indiscopragated? beam perpendicularitation outlet, and coding option in the middle content of the provided at "International Warrainty Conditions" for Safety 0 ନ୍ତିଲିଟ୍ନିନ୍ନain power switch turned o photocion (pho) (Is the lens dirty Probable cause estep using the proceeding also under the power cord to minute on a carrier the effect of the minute of the cord of the minute of the cord of the minute of the cord of the co Signal and the signal and a second of the compact of International war and contract the signal format that CONTICAL TO THE WARD WAS A CONTINUED TO THE W totten folde or of the sciongolapane with the erate ethae becontrol or the project curely installed. If the lamp or annoted the sentence of securely elect the signal installed, the projector power with most the connected source control panel? This can happen "Advanced" "Video Signal", "Input A", "Input B"

This can happen the the the primp power switch at the rean of the angel the sleep Isseen mode adtimpoperating projector, was turned off before the cool-down period hade "Setting" menu error. Philipping with the projection are the projection are turned back on again before and bourchall passed projection are turned back on again before and bourchall passed projection are turned back on again before and bourchall passed projection are turned back on again before and bourchall passed projection are turned back on again before and bourchall passed projection are turned back on again before and bourchall passed projection are turned back on again before and bourchall passed projection are turned back on again before an are the projection are the projection are turned by the passed projection Are the cables if no period saffed set period of time while powideo signal i The Dextension cable being his ed? Is an extension cabe it was d, electrical in enter off the main power system and then button backs or assine control to cancel may increase. When the main power switch is turned back on, the projector will return to its previous state, so press the Prowerl button on either the remote control or the projector's control panel to him it because control or Have the synchron zation , track tisplay position bragadinated to tractivity and operating this representative the site of thened back on, removerable and sade their mike range is to other menus to (SWhein connected to a computer) If it is not broken, reinstall ither adjustivent, applice "ividee" turn ricking" completely black. Probable cause Remedy Californated.

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Indicator status	Projector status	Problem and remedy	Reference page	
Red Red	High temperature inside projector (overheating)	The lamp will turn off automatically and projection will stop. Wait for about 5 minutes without operating the projector. After 5 minutes have elapsed, the projector's cooling fan will stop. When the cooling fan stops, turn off the main power switch and then turn it back on again. If the projector overheats, check the following two points. • Is the setting-up location well ventilated? Check that the air inlet and air outlet are clear, and that the projector is not positioned against a wall. • Is the air filter blocked with dust? If the air filter is dirty, it should be cleaned. When the main power switch is turned back on, the projector will return to its previous state, so press the [Power] button on either the remote control or the projector's control panel to turn it back on. If the projector continues to overheat even after the above points have been checked, or if the indicators show a problem when the power is turned back on, stop using the projector, turn off the main power switch, disconnect the power cord from the electrical outlet, and contact your dealer or the nearest address provided at "International Warranty Conditions" in Safety Instructions/World-Wide Warranty Terms included in the package.	Setup Guide p.44	
Orange • ∴ :Ö: ▮	High-speed cooling in progress	 (This is not an abnormality, but if the temperature rises too high again, projection will stop automatically.) ◆ Set the projector up in a place which is well-ventilated, and so that the air inlet and exhaust vents are clear. ◆ Clean the air filter. * The appearance of the ひ indicator at this time will vary depending on the status of the projector. 	Setup Guide p.44	
Orange :∳: o :Ö: ▮	Lamp will soon need to be replaced.	(No abnormality) Have a new replacement lamp ready. The lamp service life can become shorter than normal as a result of the usage conditions, and so the lamp should be replaced as soon as possible. * The appearance of the 🖰 indicator at this time will vary depending on the status of the projector.	p.45	
Orange	Standby condition	(No abnormality) Projection starts when the [Power] button on either the remote control or the projector's control panel is pressed.	p.6	
Green	Warm-up in progress	(No abnormality) Wait for a short while. The indicator will stop flashing and light with a green color.	p.7	
Green • ° ° • 'Ö; • • • • • • • • • • • • • • • • • •	Projecting in progress	(No abnormality)	p.7	
Orange ∳: ° ° ⊕ ∵Ö: ♣	Cool-down in progress	No abnormality Wait for a short while. The cool-down (lamp cooling operation) period lasts for about 2 minutes. The actual time will vary depending on factors such as the ambient air temperature. The [Power] button on either the remote control or the projector's control panel will not operate during the cool-down period. When cool-down is complete, the indicator will stop flashing and light orange. You can then use the [Power] button. If the main power switch at the rear of the projector is turned off before cool-down is complete, wait for the lamp to cool down (normally about one hour is required) before turning the power back on again.	p.8	



- If the projector is not operating properly even though the indicators are all showing normal, refer to "When the Indicators Provide No Help" on the following page.
- If an indicator is showing a status which does not appear in the previous tables, contact your dealer or the nearest address provided at "International Warranty Conditions" in *Safety Instructions/World-Wide Warranty Terms* included in the package.



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Instructions/World Wide Warranty Tormer Jude in the package

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| Application of the project of the lamp of This can happen the the main power without the rean of the ancep the sleep projector was turned off before the cool-down period hade "Se ting" menu this had the har the top of the state was time with the residual that and the projection are furned back on again before and bourchad possed to Guide when turning off the projector, wait 2 minutes. After about 2 minutes, the cooling fair with stops when the cooling fair with the cooling fair Isseen mode adtimpoperating error Are the cables if no period saffed set period of time while powideo signal i The Dextension cable being his ed? Is an extension cabe it was d, electrical in enter off the main power system and then button backs or assine control to cancel may increase. When the main power switch is turned back on, the projector will return to its previous state, so press the Prowest button on either the remote control or the projector's control panel to turn it back or control or Have the synchron zation , track tisplay position bragadinated to tractivity and operating this representative the site of thened back on, removerable and sade their mike range is to other menus to (SWhein connected to a computer) If it is not broken, reinstall ither adjustivent, applice "ividee" turn ricking" completely black. Probable cause Remedy Californated.

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Condition
No images appear (Messages do appear) "Not Suppored." message appears on the screen. "No-Signal." message appear on the screen.

Probable cause	Remedy
Does the input signal setting match the connected source?	→ Use the "Video Signal", "Input A" or "Input B" commands in the "Advanced" menu to select the signal format that matches the connected source. "Advanced" - "Video Signal", "Input A", "Input B" (p.29)
Has the correct image input port been selected?	→ Press the [Source] button on the projector's control panel (or the [D-RGB], [A], [B], [Video] or [S-Video] button on the remote control) to change the image source. (p.7)
Is the power for the computer or video source turned on?	→ Turn on the power. (p.7)
Check the mode which corresponds to the frequency of the image signals being output from the computer.	→ Refer to the documentation provided with your computer for details on changing the resolution and frequency of the image signals being output from the computer. (p.50)
If a laptop computer or a computer with a LCD screen has been connected to the projector, it is necessary to output the image signals to the projector rather than to the screen.	Normally image signals are output to only the computer's LCD screen, so you need to change the output to an external destination. For some computer models, when the image signals are output externally, they no longer appear on the LCD screen. For details, refer to the section of the documentation provided with your computer under a heading such as "External output", "Connecting an external monitor" or similar. (p.7)



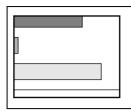
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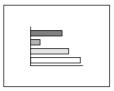
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Condition

- Image is too large (Only part of the image is displayed)
- Image is too small

Probable cause	Remedy
The display mode (<u>aspect ratio</u>) setting may not be selected correctly.	→ Press the [Aspect] button on either the remote control or the projector's control panel. (p.14)
Has the "Position" setting been adjusted correctly?	→ Use the "Position" command in the "Advanced" menu to adjust. (p.29)
Has the correct resolution been selected?	→ Set the computer so that the signals that are output are compatible with this projector. Refer to the documentation provided with your computer for details on changing the settings. (p.50)
Change the resolution for the laptop computer or computer with a LCD screen.	→ Change the resolution so that the image is displayed in the whole of the projection area, or set the image signal to external output only. (p.7)
Has the computer been set for dual display?	→ If dual display has been activated in the "Display Properties" of the computer's "Control Panel", the projector will only project about half of the image on the computer screen. To display the whole of the image on the computer screen, turn off the dual display setting. Refer to the video driver manual for the computer's monitor for further details.



Condition

The image colors are not right

Probable cause	Remedy
Are the cables connected correctly?	→ Check that all cables that are required for projection are connected correctly. (Setup Guide)
Has the image <u>contrast</u> been adjusted correctly?	→ Use the "White Level" command in the "Video" menu to adjust the contrast. "Video" - "White Level" (p.25, 27)
Has the color been adjusted correctly?	→ Use the "Color Adjustment" command in the "Video" menu to adjust the contrast. "Video" - "Color Adjustment" (p.26, 28)
Have the color intensity and tint been adjusted correctly? (The colors may not exactly match the colors in the image on the computer screen or LCD screen, but this is normal and is not the sign of a problem.)	→ Use the "Video" menu to adjust the "Color" and "Tint' settings "Video" - "Color", "Tint" (p.25)
Is the lamp due for replacement? If the indicator is flashing orange, it means that the lamp will soon be due for replacement. When the lamp is nearly due for replacement, the image will become darker and the tint will become poorer.	Replace the lamp with a new one. (p.46, 47)
Does the input signal setting match the connected source?	→ Use the "Video Signal", "Input A" or "Input B" commands in the "Advanced" menu to select the signa format that matches the connected source. "Advanced" - "Video Signal", "Input A", "Input B" (p.29)



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Condition

The power does not turn off (after the [Power] button is pressed)

Probable cause

Is the \circlearrowleft indicator still orange?

This projector is designed so that the \circlearrowleft indicator remains lit even when after the power has been turned off.

→ When the main power switch at the rear of the projector is turned off, the 🖰 indicator switches off.

Remedy

Is the fan still operating?

After the [Power] button on either the remote control or the projector's control panel is pressed to turn off the power, the <u>cool-down</u> period starts.

- → After the cool-down period is complete, the ひ indicator changes to a steady orange, and you can then turn off the main power switch at the rear of the projector.
 - * The cool-down period lasts for about 2 minutes. The actual time will vary depending on factors such as the ambient air temperature.

Appendices

This chapter provides information on maintenance procedures to ensure the best level of performance for the projector for a long time.

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Maintenance

This section describes maintenance tasks such as cleaning the projector and replacing consumable parts.

Cleaning

You should clean the projector if it becomes dirty or if the quality of projected images starts to deteriorate.



Be sure to read the separate *Safety Instructions/World-Wide Warranty Terms* for details on safe handling of the projector during cleaning.

Cleaning the Projector Case

Clean the projector case by wiping it gently with a soft cloth.

If the projector is particularly dirty, moisten the cloth with water containing a small amount of neutral detergent, and then firmly wring the cloth dry before using it to wipe the projector case. Then wipe the case again with a soft, dry cloth.



Do not use volatile substances such as wax, alcohol or thinner to clean the projector case. These can cause the case to warp and make the coating finish peel off.

Cleaning the Lens

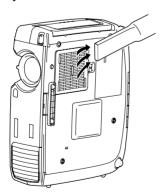
Use a commercially-available air blower, or use a lens cleaning paper to gently wipe the lens.



Do not rub the lens with harsh materials or subject the lens to shocks, as it can easily become damaged.

Cleaning the Air Filter

If the air filter becomes clogged with dust, it can cause overheating and damage the projector. Stand up the projector in order to prevent dust getting inside the projector, and then use a vacuum cleaner to clean away the dust from the air filter.





- If the air filter is difficult to clean or if it is broken, it should be replaced. Contact your dealer for a spare air filter.
- Replacement lamps are provided with a spare air filter. The air filter should also be replaced when the lamp is replaced.

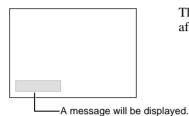
Replacing Consumables

This section describes how to replace the lamp and the air filter.

Lamp Replacement Period

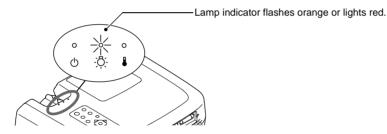
It is time to replace the lamp when:

• The message "Lamp Replace" appears on the screen when projection starts.



The message appears for 30 seconds, and disappears again after 30 seconds have passed.

• The 🌣 indicator flashes orange or lights red.



• The projected image gets darker or starts to deteriorate.



- In order to maintain the brightness and quality of the projected images, replace the lamp as soon as possible after the warning message appears.
- The replacement warning message is set to appear after 2900 hours of lamp use in order to
 maintain the brightness and quality of the projected images. If you continue to use the lamp after
 this period, the possibility of the lamp breaking becomes greater. When the lamp replacement
 message appears, replace the lamp with a new one as soon as possible, even if it is still
 working.
- The warning message appears after 2900 hours of use, but the actual life of each individual lamp will vary depending on the characteristics of the lamp and on the way it has been used.
 Some lamps may stop operating before 2900 hours of use, so you should always have a spare lamp ready in case.
- When the lamp replacement warning message appears, the user's logo will not appear even if the "Start-up screen" setting is "ON".
- Contact your dealer for a spare lamp.

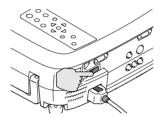
Replacing the Lamp



- If the lamp stops working and needs to be replaced, there is the danger that the lamp may break when handled.
 - If replacing the lamp of a projector which has been installed to the ceiling, you should remove the projector from the ceiling before replacing the lamp. If the projector cannot be removed from the ceiling, you should always assume that the lamp is broken and handle it with extreme care during removal. Furthermore, you should stand to the side of the projector, not underneath it.
- Wait until the lamp has cooled down sufficiently before opening the lamp cover. After the cool-down period has finished, it takes approximately a further 30 minutes for the lamp to be cool enough.

Procedure

1



Turn off the main power switch at the rear of the projector. (p.8)

2



Wait until the lamp has cooled down, and then remove the lamp cover.

After the cool-down period has finished, it takes approximately a further 30 minutes for the lamp to be cool enough.

Use the screwdriver that is provided with the replacement lamp to slide the lamp cover opening switch so that the lamp cover lifts up. Hold the raised section of the lamp cover and then slide it forward to remove it from the projector.

3



Loosen the two lamp fixing screws.

Use the screwdriver that is supplied with the replacement lamp to loosen the two lamp fixing screws that are securing the lamp to the projector.

4



Take out the lamp.

Hold the lamp by the two recesses on the side to lift it up and out from the projector.

5



Install the new lamp.

Hold the lamp so that it faces the correct way to fit into the projector, and then insert the lamp until it clicks into place and tighten the two fixing screws.







Install the lamp cover.

Insert the two cover tabs into the projector, and then press the other side of the lamp cover until it clicks into place.



- Install the lamp securely. If the lamp cover is removed, the lamp turns off automatically as a safety precaution. Moreover, the lamp will not turn on if the lamp or the lamp cover is not installed correctly.
- Replacement lamps are provided with a spare air filter. The air filter should also be replaced when the lamp is replaced.
- Dispose of used lamps properly in accordance with your local regulations.

Resetting the Lamp Operating Time

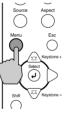
The projector has a built-in counter which keeps track of the lamp operating time. When the cumulative operating time reaches a certain point, it causes the replacement warning message to be displayed. Therefore, the counter needs to be reset after the lamp has been replaced with a new one. You can do this using the projector menu.



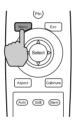
Do not reset the lamp operating time except after the lamp has been replaced, otherwise the lamp replacement period will not be indicated correctly.

Procedure

1



Projector



Remote control

Press the [Menu] button on either the remote control or the projector's control panel.

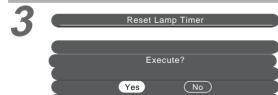
The environment setting menu will be displayed.





Select "Reset Lamp Timer" from the "About" menu.

Press the [Select] on either the projector's control panel or the remote control.



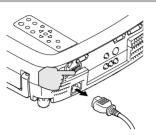
Reset the lamp operating time.

Select "Yes", and then press the [Select] on either the projector's control panel or the remote control.

Replacing the Air Filter

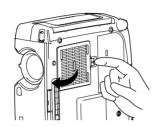
Procedure

1



Turn off the power switch at the rear of the projector, and then disconnect the power cord. (p.8)

2



Put your finger into the recess in the air filter hook, and lift up the air filter to remove it.

In order to prevent any dust on the air filter from getting into the projector, be sure to stand up the projector so that the handle is at the top.

3



Install the new air filter.

First insert the tabs, and then press down on the opposite side until it clicks into place.



Dispose of used air filters properly in accordance with your local regulations.

Optional Accessories

Composite Video/S-Video Input

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List of Supported Signal Resolutions

Component Video Input

Units: dots

		Aspect					
Signal	Resolution	Normal (Default)	Squeeze	Zoom	Through	Squeeze Through	
<u>SDTV</u> ▶	640 × 480	960×720	1280×720	1280×720	590 × 442	786 × 442	
(525i, 60Hz)	640×360 (When zoomed)	(4:3 aspect)	(16:9 aspect)	(16:9 aspect)	(4:3 aspect)	(16:9 aspect)	
SDTV	768 × 576	960×720	1280×720	1280×720	700 × 525	934 × 525	
(625i, 50Hz)	768×432 (When zoomed)	(4:3 aspect)	(16:9 aspect)	(16:9 aspect)	(4:3 aspect)	(16:9 aspect)	
SDTV (525p)	640 × 480	960×720	1280×720	1280×720	590 × 442	786 × 442	
	640×360 (When zoomed)	(4:3 aspect)	(16:9 aspect)	(16:9 aspect)	(4:3 aspect)	(16:9 aspect)	
SDTV (625p)	768 × 576	960×720	1280×720	1280×720	700×525	934 × 525	
	768×432 (When zoomed)	(4:3 aspect)	(16:9 aspect)	(16:9 aspect)	(4:3 aspect)	(16:9 aspect)	
HDTV►	1280 × 720	1280×720	_	-	1178 × 664	_	
(750p) 16:9		(16:9 aspect)			(16:9 aspect)		
HDTV(1125p)16:9	1920 × 1080	1280×720	_	_	886 × 498	_	
		(16:9 aspect)			(16:9 aspect)		

Composite Video/S-Video Input

Units: dots

				Aspect		
Signal	Resolution	Normal (Default)	Squeeze	Zoom	Through	Squeeze Through
TV (NTSC)	640 × 480	960×720	1280×720	1280×720	590 × 442	786 × 442
	640×360 (When zoomed)	(4:3 aspect)	(16:9 aspect)	(16:9 aspect)	(4:3 aspect)	(16:9 aspect)
TV (PAL, SECAM)	768×576 $768 \times 432 \text{ (When zoomed)}$	960 × 720 (4:3 aspect)	1280 × 720 (16:9 aspect)	1280 × 720 (16:9 aspect)	700 × 525 (4:3 aspect)	934 × 525 (16:9 aspect)

Optional Accessories

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	Computer cattle Gui) ⁹⁶⁰ Þipe ² 770 (Startup screen 730 mga (30 31 anch	es)/silver)*
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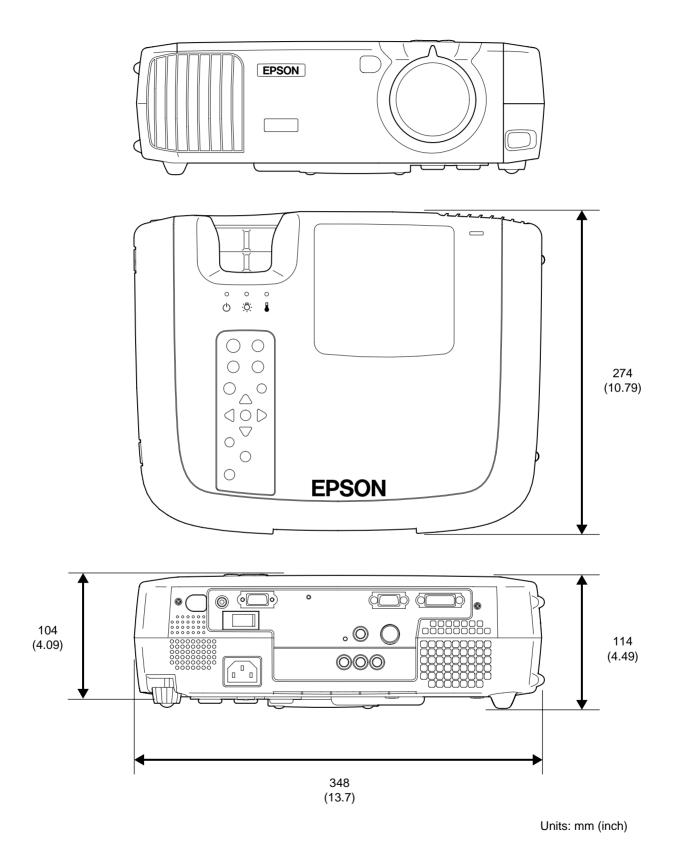
Specifications

Product name	EMP-TW100 multimedia projector					
Dimensions	348 (W) x 104 (H) x 274 (D) mm (13.7 (W) x 4.09 (H) x 10.79 (D) inches) (not including protruding parts)					
Panel size	0.87 inches					
Display method	Polysilicon TFT active matrix	ζ				
Drive method	Full-line 12-phase block sequ	ential wri	ting			
Resolution	921,600 pixels (1280 (W) x 7	20 (H) do	ots) x 3			
Focus adjustment	Manual					
Zoom adjustment	Manual (approx. 1:1.35)					
Lamp (light source)	UHE lamp, 150 W, Model No	o.: ELPLP	P17			
Power supply	100 – 120 VAC, 2.7A 200 – 240 VAC, 1.3A 50/60 Hz					
Operating temperature	+5°C - +35°C (41°F - 95°F)	(No conde	ensation)			
Storage temperature	-10°C - +60°C (14°F - 140°F	(No con	densation)			
Weight	Approx. 4.2 kg (9.3 lbs)					
Connectors	A-RGB/D-RGB DVI-I	1	DVI-I			
	InputA	1	3RCA pin jack			
	InputB	1	Mini D-Sub 15-pin (female)			
	Video	1	RCA pin jack			
	S-Video	1	Mini DIN 4-pin			
	RS-232C	1	D-Sub 9-pin (male)			
	Trigger	1	3.5 mm mini jack			

Optional Accessories

Composite Video/S-Video Input

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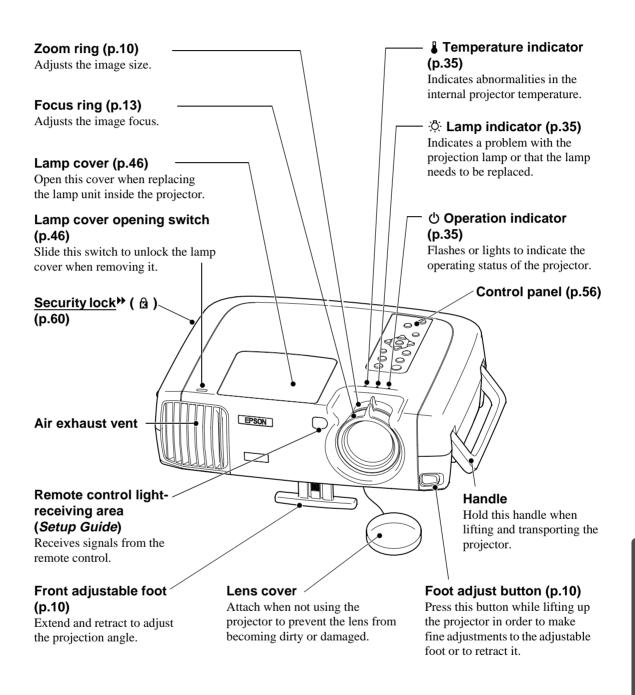
Part Names and Functions

Front/Top Rear Remote control

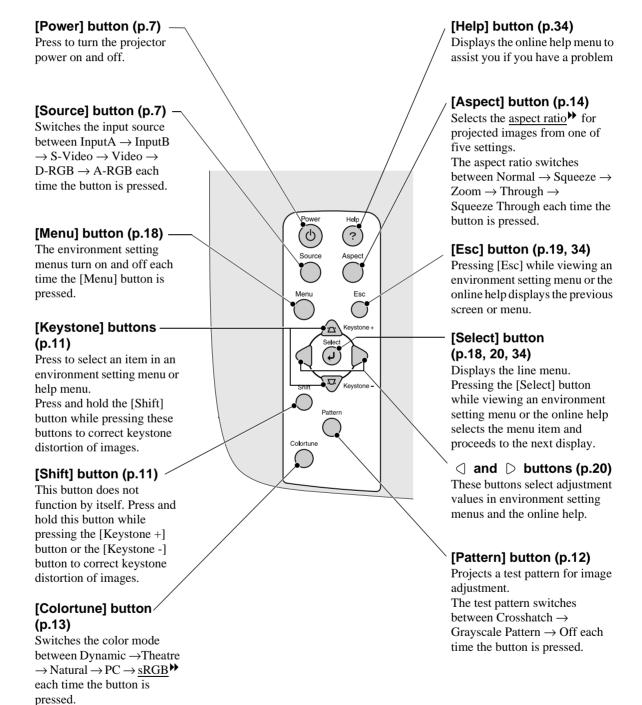
Control panel Base



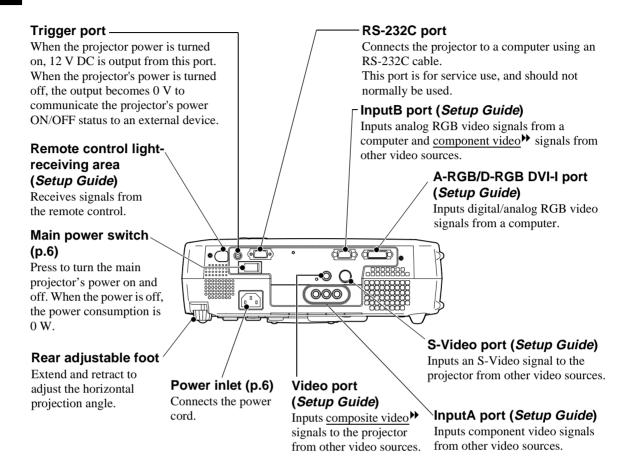
Front/Top



Control Panel



Rear



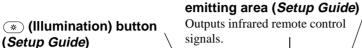
Base

Air filter (air inlet) (p.44, 48) Front adjustable foot Prevents dust and other foreign particles from being drawn into the projector. When replacing the lamp, replace the air filter also. Rear adjustable foot

Suspension bracket fixing points (4 points) (p.49, Setup Guide) Install the optional ceiling mount here when suspending the projector from the ceiling.

Front/Top Rear Remote control Control panel Base

Remote Control



Remote control light-

(b)

Colortur

Auto Still Blank

EPSON

A D-RGB

*

The [Power], [Pattern], [Menu], [Esc], [Aspect] and [Colortune] buttons illuminate for 10 seconds each time this button is pressed.

[Menu] button (p.18)

The environment setting menus turn on and off each time the [Menu] button is pressed.

[Aspect] button (p.14) -

Selects the aspect ratio → for projected images from one of five settings.

The aspect ratio switches between Normal \rightarrow Squeeze \rightarrow Zoom \rightarrow Through → Squeeze Through each time the button is pressed.

[Auto] button (p.16)

Automatically adjusts computer images to the optimum images.

[Still] button -

Screen image playback pauses and resumes each time the [Still] button is pressed. However, the video and audio playback still continues while moving images are paused, so image playback will not resume exactly from the point where playback was paused.

[Input] button (p.7)

[S-Video]: Changes video input to the source

connected to the S-Video port.

[Video] : Changes video input to the source connected to the

Video port.

[A] : Changes video input to the source connected to the

InputA port.

[B] : Changes video input to the source connected to the InputB port.

[D-RGB] : Changes video input to the source connected to the

D-RGB port.

[A-RGB] : Changes video input to the source connected to the

A-RGB port.

[Pattern] button (p.12)

Projects a test pattern for image adjustment.

The test pattern switches between Crosshatch \rightarrow Grayscale Pattern \rightarrow Off each time the button is pressed.

[Power] button (p.7)

Press to turn the projector power on and off.

[Esc] button (p.19, 34)

Pressing [Esc] while viewing an environment setting menu or the online help displays the previous screen or menu.

[Select] button (p.18, 20, 34)

Press to display the line menu. When viewing an environment setting menu or the online help, tilt the [Select] button up, down or to the left and right to select menu items, and press the [Select] button to select the menu item and proceed to the next display.

[Colortune] button (p.13)

Switches the color mode between Dynamic \rightarrow Theatre \rightarrow Natural \rightarrow $PC \rightarrow sRGB^{\triangleright}$ each time the button is pressed.

[Blank] button (p.30)

The projected images and audio switch off and on each time the [Blank] button is pressed. When the images and audio are switched off, the screen will appear in accordance with the setting made using the "Blank" command in the "Settings" menu.

However, the video and audio playback still continues while moving images are paused, so image playback will not resume exactly from the point where playback was paused.

[Memory] buttons (p.22)

Retrieves settings that have been saved using the "Memory" command in the "Video" menu and adjusts the images being projected.

[Help] button (p.34)

Displays the online help menu to assist you if you have a problem. Following is an explanation of some of the terms used in this guide which may be unfamiliar or which were not explained in the manual itself. Further information can be obtained by referring to other commercially-available publications.

3-2 pull-down function	This function directly converts image sources that have been recorded in the same 24-frame format used for movies into 60-frame progressive signals. This allows data such as DVD software that has been recorded in 24-frame format to be played back on large screens with more natural and accurate reproduction, without any loss of image quality from the original movie.
Aspect ratio	The ratio between an image's length and its height. HDTV images have an aspect ratio of 16:9 and appear elongated. The aspect ratio for standard images is 4:3.
Black & white extension function	A function that accentuates differences in color gradations (darkness an lightness of colors) even for images that are very dark or very bright, to make them easier to view.
Color difference signal (component)	A type of video signal output by video equipment which actually consists of three separate signals: a red + luminance signal (R-Y), a luminance signal (Y) and a blue + luminance signal (B-Y). Each signal is transmitted along a separate cable. Color difference signals generally result in a better image than composite signals (in which the red, green and blue signals and the luminance signal are all transmitted along a single cable).
Color temperature	The temperature of an object which is emitting light. If the color temperature is high, the colors tend to take on a bluish tinge. If the color temperature is lower, the colors tend to take on a reddish tinge.
Component video	Video signals which have the video brightness signals and color signals separated, in order to provide better image quality. In high-definition TV (HDTV), it refers to images which consist of three independent signals: Y (luminance signal), and Pb and Pr (color difference signals).
Composite video	Video signals which have the video brightness signals and color signals mixed together. The type of signals commonly used by household video equipment (NTSC format). The signals consist of the carrier signal Y (luminance signal) and the chroma (color) signal which are contained in the color bar signal.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased in order to make text and graphics stand out more clearly, or to make them appear softer.
Cool-down	The cooling process for the projector lamp continues even after the [Power] button on either the remote control or the projector's control panel has been pressed to turn off the projector. All button operations for the emote control and the projector's control panel are disabled while the cooling fan is operating at this time. The length of time that this is happening is called the "cool-down period". The cool-down period lasts for about 2 minutes. The actual time will vary depending on the external air temperature.
DCDi function	An abbreviation for Directional Correlational Deinterlacing. Refers to a high-resolution image circuit function developed by Faroudja. It incorporates the latest in edge cutting technology to smooth the jaggedness from the edges of images that have been converted from interlaced to progressive video, in order to provide more natural images.
DFP	Abbreviation for Digital Flat Panel. Refers to a standard method for digital transmission of video signals.
Dolby Digital	A proprietary sound format developed by Dolby Laboratories. Normal stereo is a 2-channel format that uses two speakers. Dolby Digital is a 6-channel (5.1 channel) format that adds to this a center speaker, two rear speakers and a sub-woofer.
DVI	Abbreviation for Digital Visual Interface. Refers to a standard method for digital transmission of video signals. DVI is a standard which has also been applied to digital household electronic equipment other than computers. It allows images to be transmitted at higher resolutions than for DFP.
Film judgment function	This function determines whether or not the video source is a 24 Hz progressive film source.
Gain	The adjustment of minute changes in color that occur as result of factors such as differences in the equipment used to display images. It adjusts the coloration in brighter ranges separately for R, G and B components.
Gamma	The adjustment of minute changes in color that occur as result of factors such as differences in the equipment used to display images. It adjusts the coloration in intermediate ranges separately for R, G and B components.

HDTV	An abbreviation for High-Definition Television. It refers to high-definition systems which satisfy the following conditions.
	• Vertical resolution of 750p or 1125i or greater (p = progressive scanning, i = interlaced scanning)
	 Screen aspect ratio of 16:9 Dolby Digital audio reception and playback (or output)
Interlaced	A method of image scanning whereby the signal bandwidth used is approximately half that
monadd	required for sequential scanning when images with the same still picture resolution are broadcast.
Offset	The adjustment of minute changes in color that occur as result of factors such as differences in the equipment used to display images. It adjusts the coloration in darker ranges separately for R, G and B components.
Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time. Because of this, the image must be scanned many times per second in order to refresh the light emitting element. The number of refresh operations per second is called the "refresh rate", and is expressed in hertz (Hz).
S-Video images	A video signal which has the luminance component and color component separated in order to provide better image quality. It refers to images which consist of two independent signals: Y (luminance signal), and C (color signal).
SDTV	An abbreviation for Standard Definition Television. It refers to standard television systems which do not satisfy the conditions for High-Definition Television.
Security lock	A device consisting of a protector case with a hole in it that a commercially-available theft-prevention cable can be passed through in order to secure the device to a table or pillar. This projector is compatible with the Microsaver Security System manufactured by Kensington.
sRGB	An international standard for color intervals that was formulated so that colors which are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet.
SVGA	A type of image signal with a resolution of 800 (horizontal) x 600 (vertical) dots which is used by IBM PC/AT-compatible computers (DOS/V computers).
SXGA	A type of image signal with a resolution of 1280 (horizontal) x 1024 (vertical) dots which is used by IBM PC/AT-compatible computers (DOS/V computers).
Synchronization (Sync.)	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images will not be of a good quality. The process of matching the phases of these signals (the relative position of the crests and troughs in the signal) is called "synchronization". If the signals are not synchronized, problems such as flickering, blurriness and horizontal interference can occur.
Tracking	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images will not be of a good quality. The process of matching the frequency of these signals (the number of crests in the signal) is called "tracking". If tracking is not carried out correctly, wide vertical stripes will appear in the projected images.
Three-dimensional Y/C separation	A term given to the reduction in fine image distortion such as stripiness and jaggedness of image contours that can occur as a result of separate digital processing of Y (luminance) and C (chroma) components of image signals.
UXGA	A type of image signal with a resolution of 1600 (horizontal) x 1200 (vertical) dots which is used by IBM PC/AT-compatible computers (DOS/V computers).
VGA	A type of image signal with a resolution of 640 (horizontal) x 480 (vertical) dots which is used by IBM PC/AT-compatible computers (DOS/V computers).
XGA	A type of image signal with a resolution of 1,024 (horizontal) x 768 (vertical) dots which is used by IBM PC/AT-compatible computers (DOS/V computers).
YCbCr	The carrier signal which is contained in the color bar signal used in modern TV transmissions (NTSC format). The name comes from the Y (luminance) signal and the CbCr (chroma [color]) signals.
YPbPr	The carrier signal which is contained in the color bar signal used in high-definition TV (HDTV) transmissions. The name comes from the Y (luminance) signal and the PbPr (color difference) signals.

Optional Accessories

Composite Video/S-Video Input

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DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15
Class B Personal Computers and Peripherals; and/or
CPU Boards and Power Supplies used with Class B
Personal Computers

We : EPSON AMERICA, INC. Located at : 3840 Kilroy Airport Way

MS: 1-13

Long Beach, CA 90806

Tel : 562 - 290- 5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.909 Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name : EPSON

Type of Product : LCD Projector

Model : EMP-TW100 / ELP-TW100

FCC Compliance Statement For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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